

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052225\
 Data File : VX046321.D
 Acq On : 22 May 2025 12:00
 Operator : JC/MD
 Sample : Q2097-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RBR251675

Quant Time: May 23 01:44:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 06 07:12:22 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

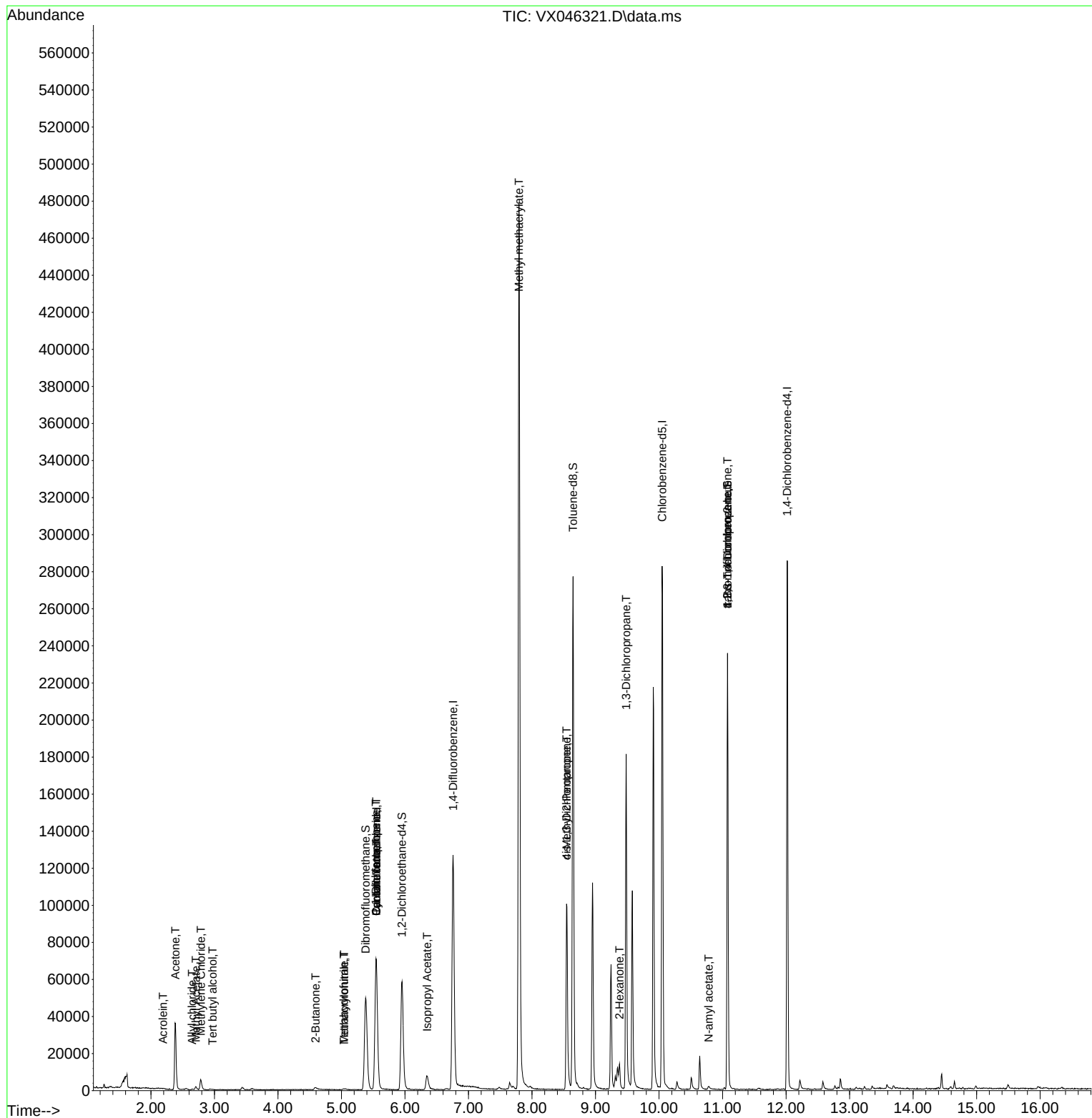
Internal Standards						
1) Pentafluorobenzene	5.550	168	60073	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	121312	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	116684	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	52293	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	61484	54.899	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.800%			
35) Dibromofluoromethane	5.379	113	44507	50.948	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.900%			
50) Toluene-d8	8.647	98	154181	50.993	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.980%			
62) 4-Bromofluorobenzene	11.079	95	61310	52.863	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.720%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	2.971	59	177	1.126	ug/l #	72
13) Acrolein	2.191	56	53	0.296	ug/l #	15
14) Allyl chloride	2.648	41	273	0.201	ug/l #	21
16) Acetone	2.386	43	41090	91.505	ug/l	100
18) Methyl Acetate	2.709	43	2397	2.300	ug/l	92
20) Methylene Chloride	2.788	84	2727	3.169	ug/l #	85
25) 2-Butanone	4.593	43	2835	4.349	ug/l	97
29) Tetrahydrofuran	5.038	42	299	0.732	ug/l #	71
31) Cyclohexane	5.550	56	1757	1.316	ug/l #	25
36) 1,1-Dichloropropene	5.544	75	6084	5.183	ug/l #	50
38) Carbon Tetrachloride	5.550	117	7073	5.363	ug/l #	17
41) Methacrylonitrile	5.044	41	213	0.281	ug/l #	34
43) Isopropyl Acetate	6.348	43	12281	5.551	ug/l	97
48) Methyl methacrylate	7.793	41	47192	41.769	ug/l #	49
51) 4-Methyl-2-Pentanone	8.543	43	40600	27.648	ug/l #	50
54) cis-1,3-Dichloropropene	8.543	75	14953	11.462	ug/l #	62
57) 1,3-Dichloropropane	9.482	76	1580	1.058	ug/l #	42
59) 2-Hexanone	9.378	43	12627	11.622	ug/l #	28
74) N-amyl acetate	10.781	43	1370	0.681	ug/l #	48
76) 1,2,3-Trichloropropane	11.079	75	35902	28.523	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	35902	92.861	ug/l #	1

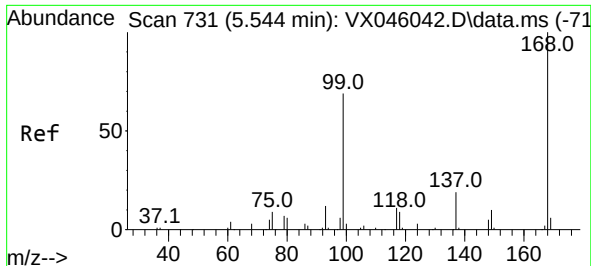
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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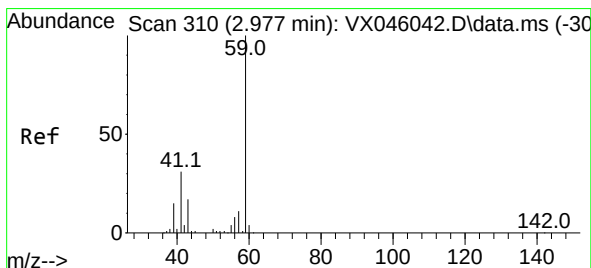
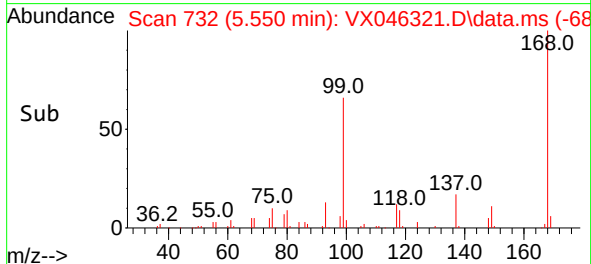
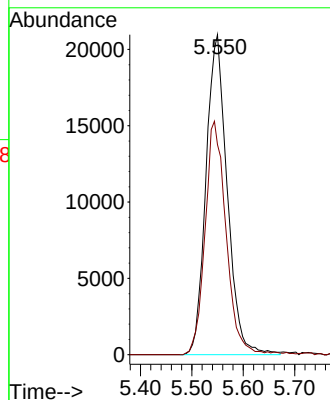
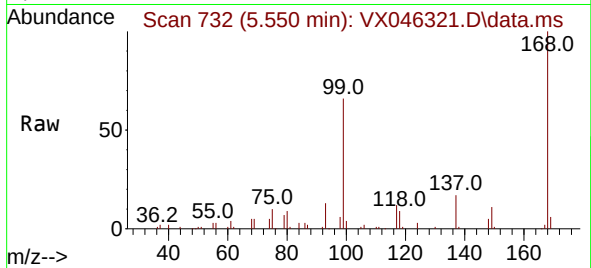




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX046321.D
Acq: 22 May 2025 12:00

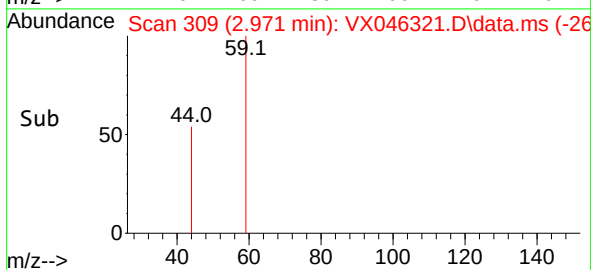
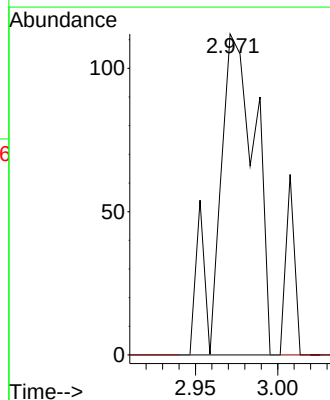
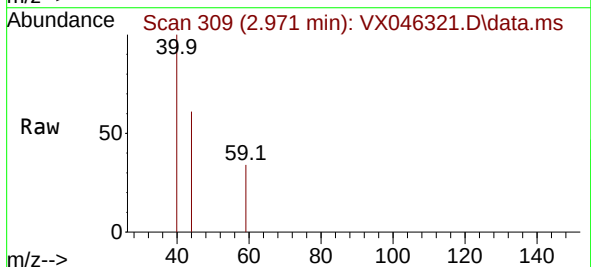
Instrument :
MSVOA_X
ClientSampleId :
RBR251675

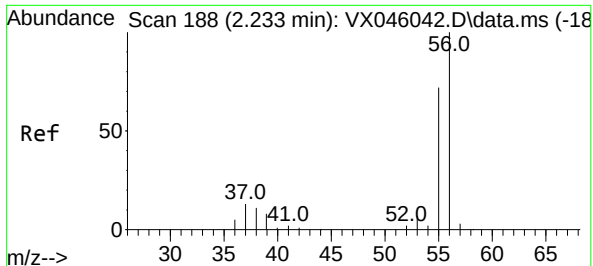
Tgt Ion:168 Resp: 60073
Ion Ratio Lower Upper
168 100
99 65.6 54.9 82.3



#11
Tert butyl alcohol
Concen: 1.126 ug/l
RT: 2.971 min Scan# 309
Delta R.T. -0.006 min
Lab File: VX046321.D
Acq: 22 May 2025 12:00

Tgt Ion: 59 Resp: 177
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#13

Acrolein

Concen: 0.296 ug/l

RT: 2.191 min Scan# 11

Delta R.T. -0.043 min

Lab File: VX046321.D

Acq: 22 May 2025 12:00

Instrument :

MSVOA_X

ClientSampleId :

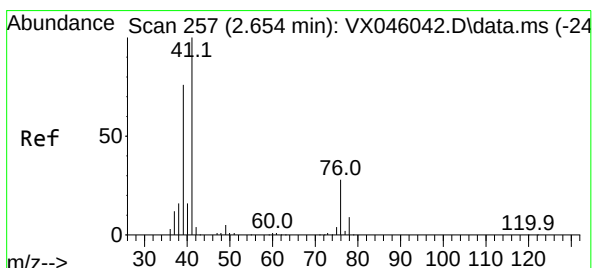
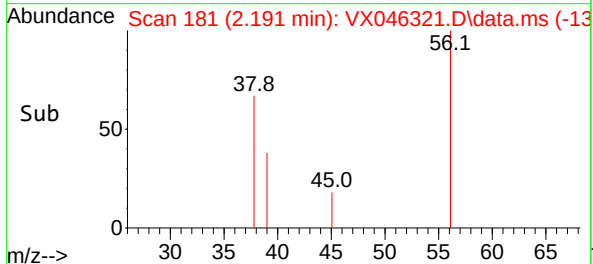
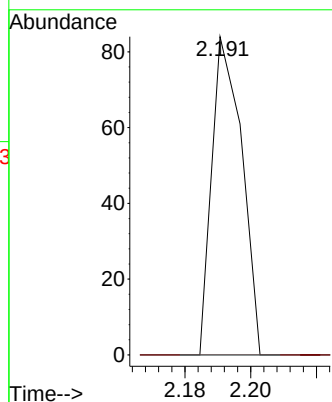
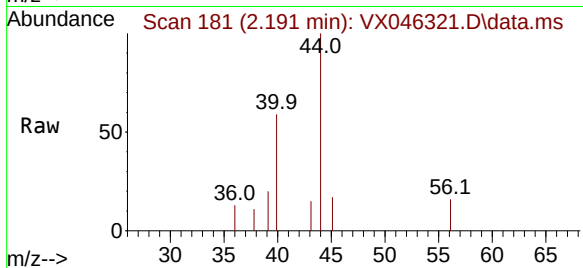
RBR251675

Tgt Ion: 56 Resp: 53

Ion Ratio Lower Upper

56 100

55 0.0 56.2 84.4#



#14

Allyl chloride

Concen: 0.201 ug/l

RT: 2.648 min Scan# 256

Delta R.T. -0.006 min

Lab File: VX046321.D

Acq: 22 May 2025 12:00

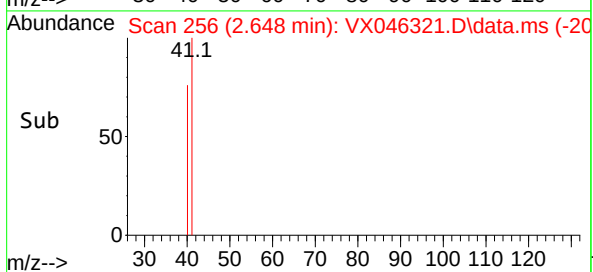
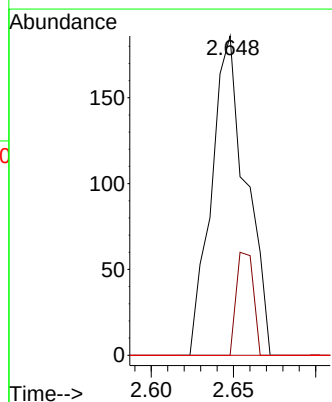
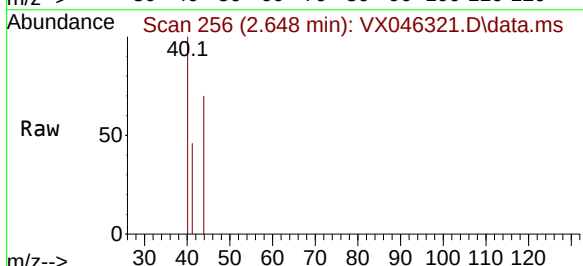
Tgt Ion: 41 Resp: 273

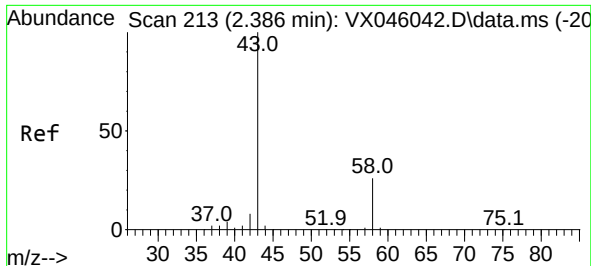
Ion Ratio Lower Upper

41 100

39 0.0 60.6 90.8#

76 0.0 24.9 37.3#

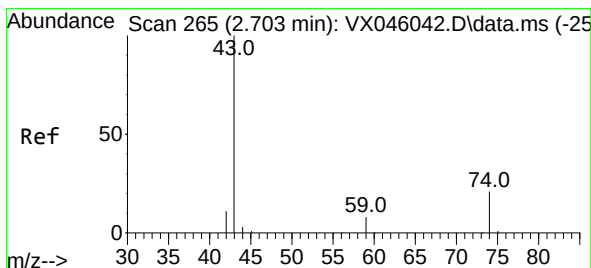
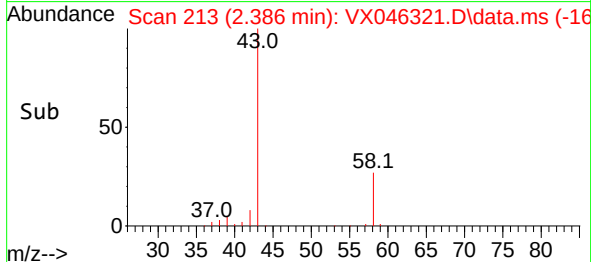
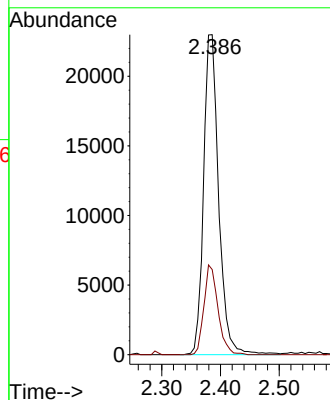
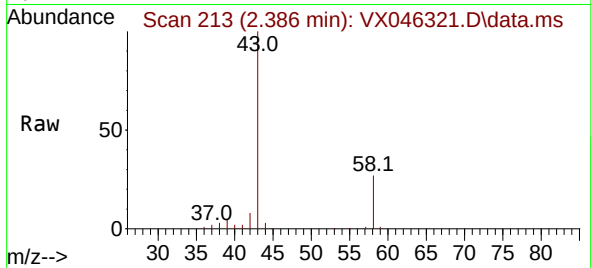




#16
Acetone
Concen: 91.505 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX046321.D
Acq: 22 May 2025 12:00

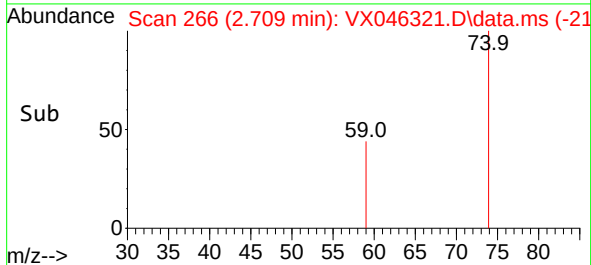
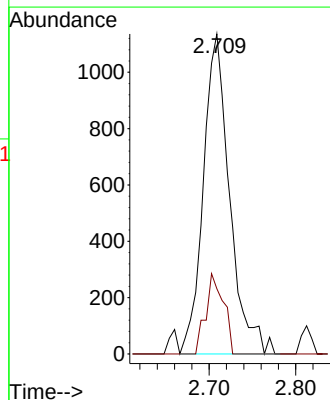
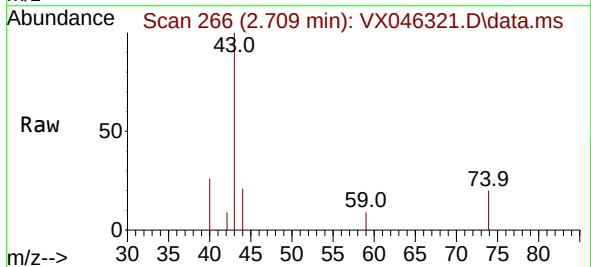
Instrument :
MSVOA_X
ClientSampleId :
RBR251675

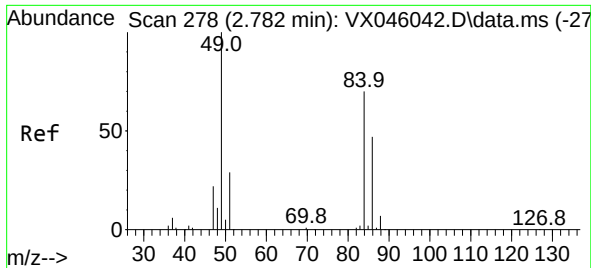
Tgt Ion: 43 Resp: 41090
Ion Ratio Lower Upper
43 100
58 26.6 21.2 31.8



#18
Methyl Acetate
Concen: 2.300 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX046321.D
Acq: 22 May 2025 12:00

Tgt Ion: 43 Resp: 2397
Ion Ratio Lower Upper
43 100
74 17.0 16.7 25.1

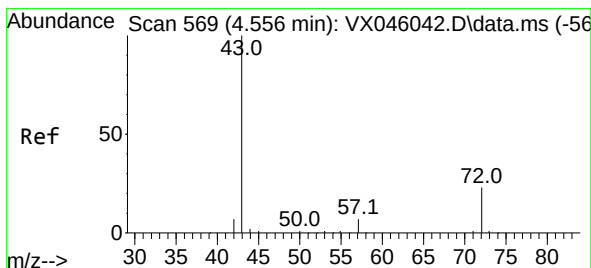
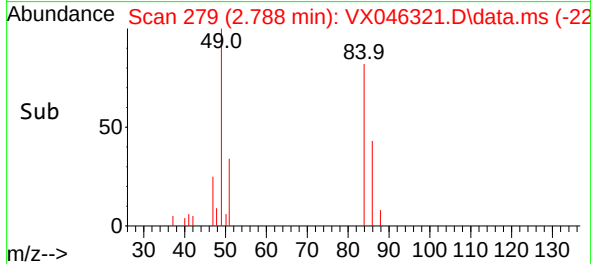
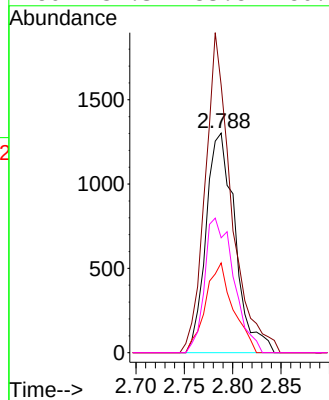
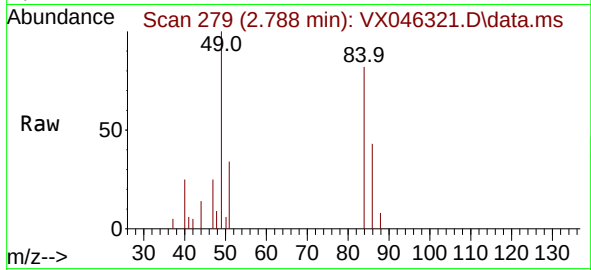




#20
Methylene Chloride
Concen: 3.169 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX046321.D
Acq: 22 May 2025 12:00

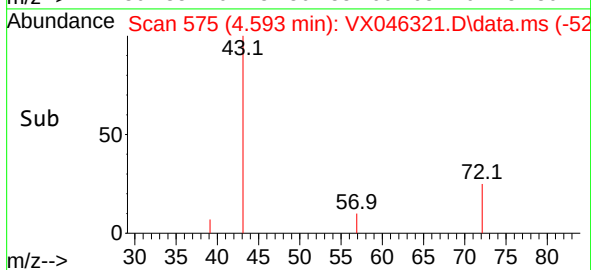
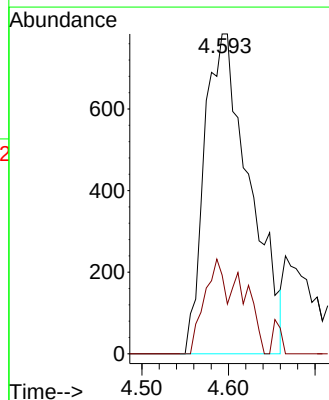
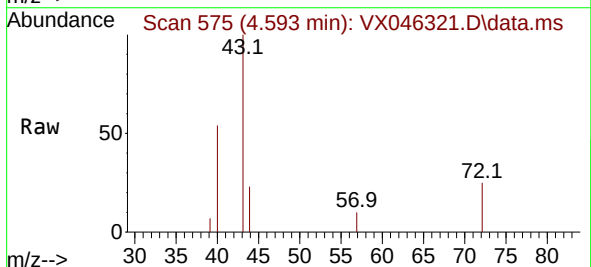
Instrument :
MSVOA_X
ClientSampleId :
RBR251675

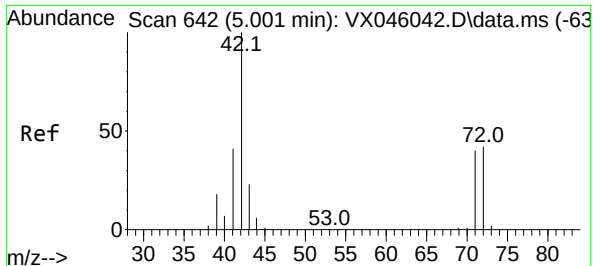
Tgt Ion: 84 Resp: 2727
Ion Ratio Lower Upper
84 100
49 121.9 113.9 170.9
51 40.9 33.5 50.3
86 52.3 53.8 80.8#



#25
2-Butanone
Concen: 4.349 ug/l
RT: 4.593 min Scan# 575
Delta R.T. 0.037 min
Lab File: VX046321.D
Acq: 22 May 2025 12:00

Tgt Ion: 43 Resp: 2835
Ion Ratio Lower Upper
43 100
72 24.6 18.4 27.6





#29

Tetrahydrofuran

Concen: 0.732 ug/l

RT: 5.038 min Scan# 64

Delta R.T. 0.037 min

Lab File: VX046321.D

Acq: 22 May 2025 12:00

Instrument :

MSVOA_X

ClientSampleId :

RBR251675

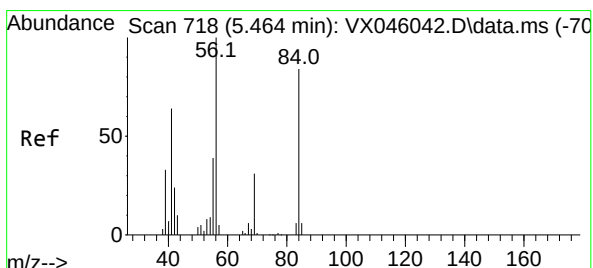
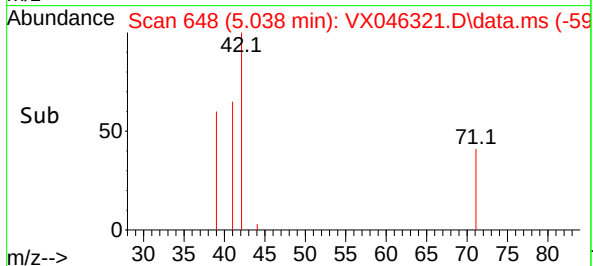
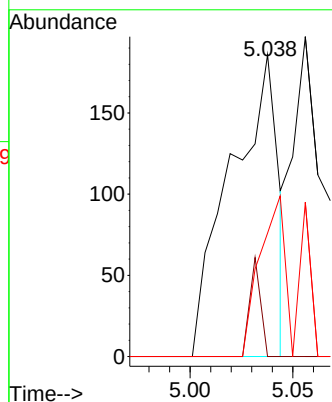
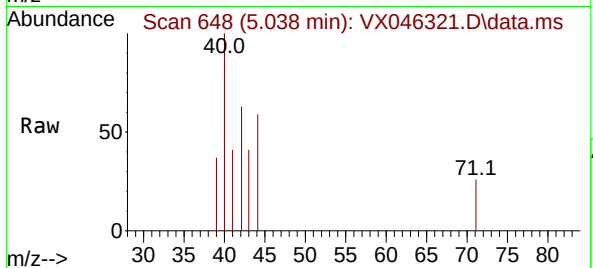
Tgt Ion: 42 Resp: 299

Ion Ratio Lower Upper

42 100

72 7.4 33.7 50.5#

71 39.8 31.4 47.2



#31

Cyclohexane

Concen: 1.316 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.085 min

Lab File: VX046321.D

Acq: 22 May 2025 12:00

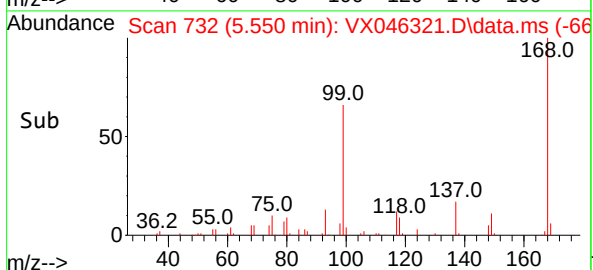
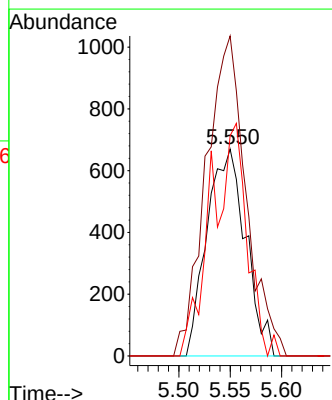
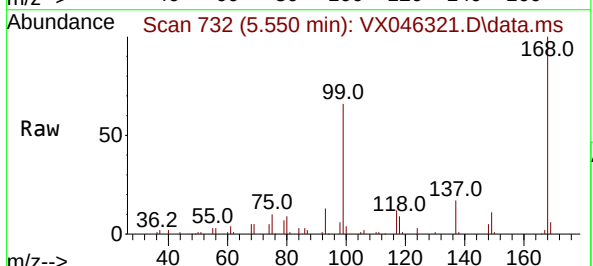
Tgt Ion: 56 Resp: 1757

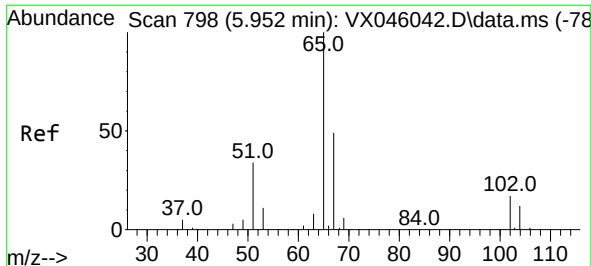
Ion Ratio Lower Upper

56 100

69 146.1 24.4 36.6#

84 106.4 66.9 100.3#





#33

1,2-Dichloroethane-d4

Concen: 54.899 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX046321.D

Acq: 22 May 2025 12:00

Instrument :

MSVOA_X

ClientSampleId :

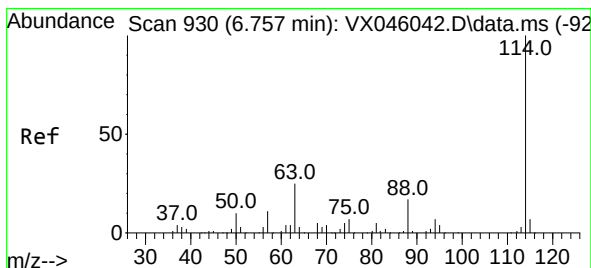
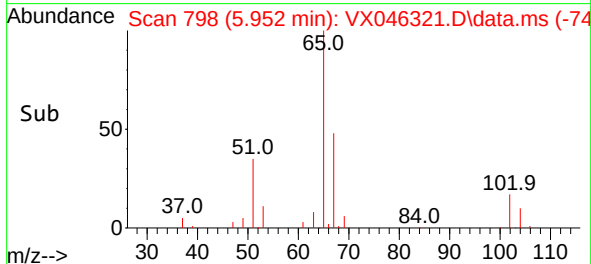
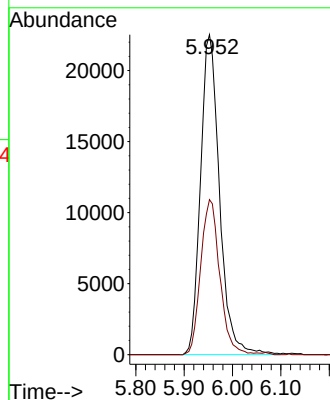
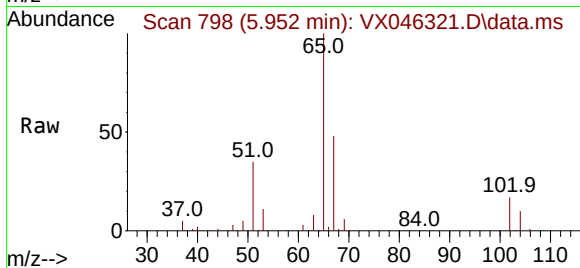
RBR251675

Tgt Ion: 65 Resp: 61484

Ion Ratio Lower Upper

65 100

67 48.8 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX046321.D

Acq: 22 May 2025 12:00

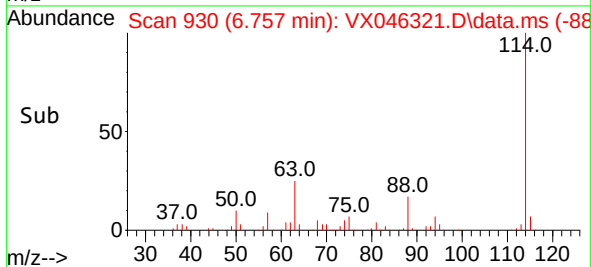
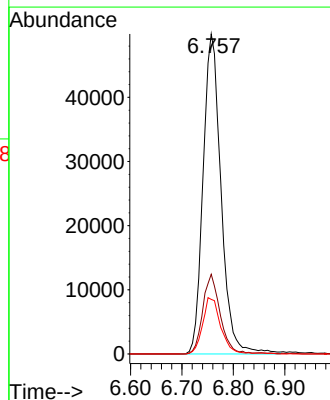
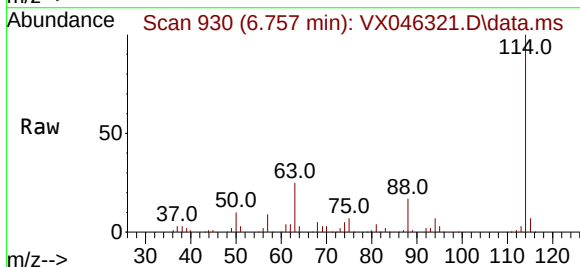
Tgt Ion: 114 Resp: 121312

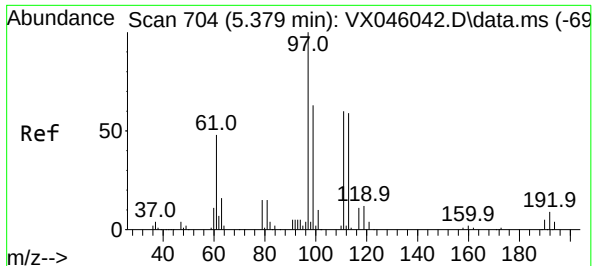
Ion Ratio Lower Upper

114 100

63 24.9 0.0 49.2

88 17.0 0.0 33.6

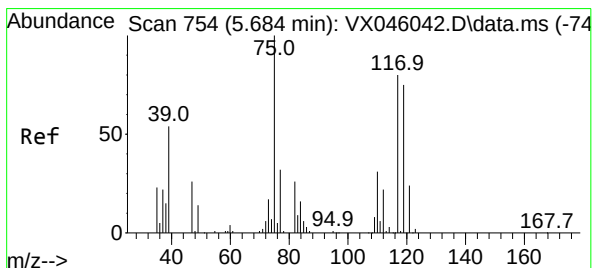
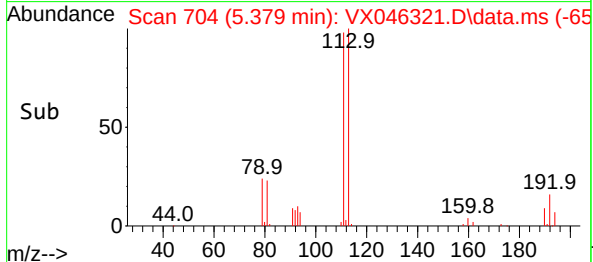
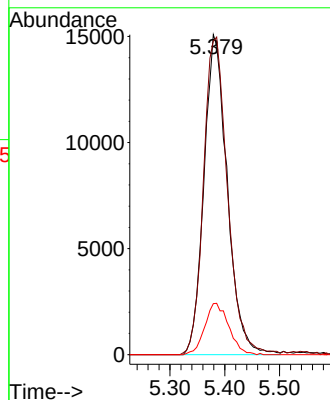
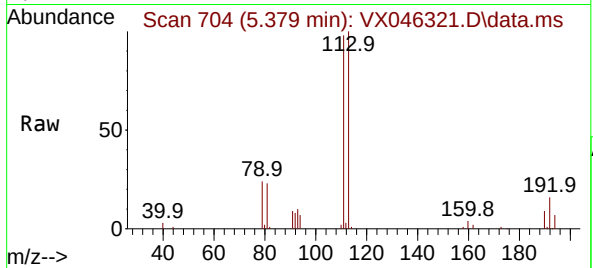




#35
Dibromofluoromethane
Concen: 50.948 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX046321.D
Acq: 22 May 2025 12:00

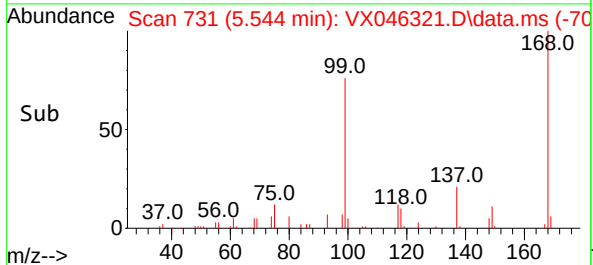
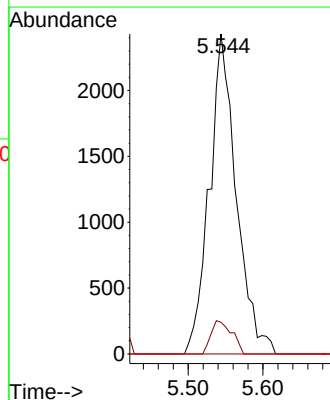
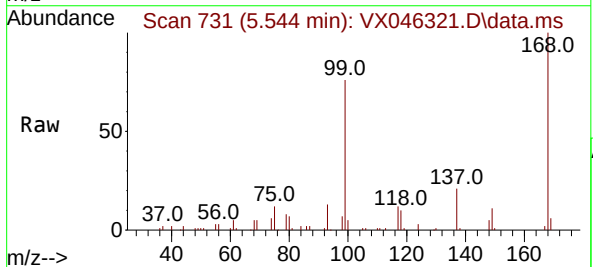
Instrument :
MSVOA_X
ClientSampleId :
RBR251675

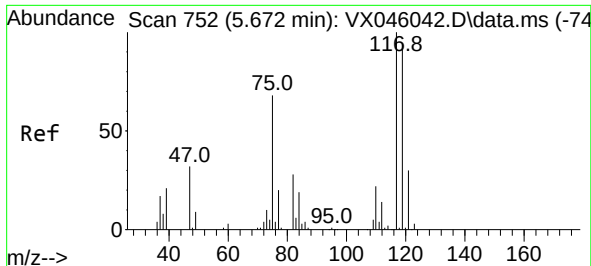
Tgt Ion:113 Resp: 44507
Ion Ratio Lower Upper
113 100
111 102.2 83.1 124.7
192 16.6 13.3 19.9



#36
1,1-Dichloropropene
Concen: 5.183 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.140 min
Lab File: VX046321.D
Acq: 22 May 2025 12:00

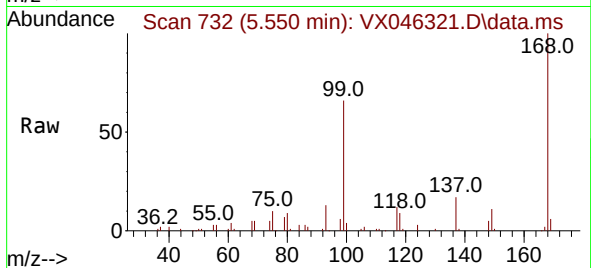
Tgt Ion: 75 Resp: 6084
Ion Ratio Lower Upper
75 100
110 8.1 16.3 48.9#
77 0.0 24.3 36.5#



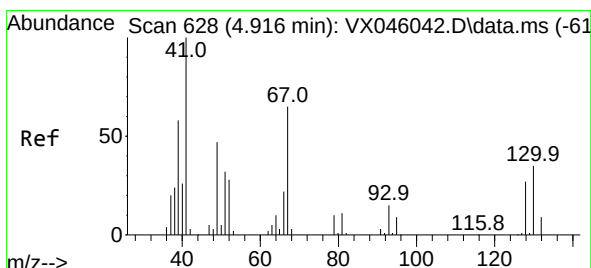
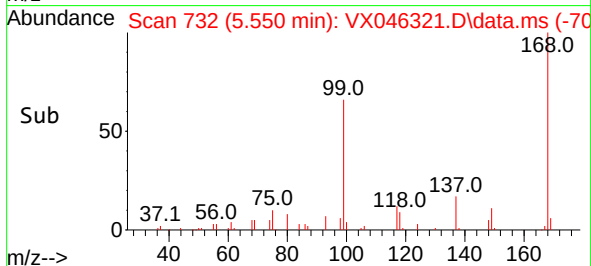
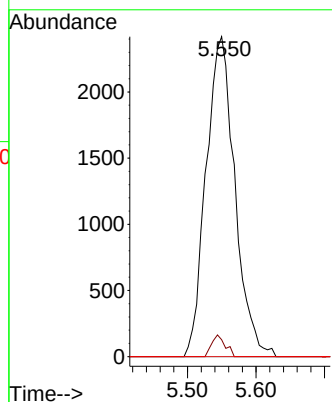


#38
Carbon Tetrachloride
Concen: 5.363 ug/l
RT: 5.550 min Scan# 711
Delta R.T. -0.122 min
Lab File: VX046321.D
Acq: 22 May 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
RBR251675

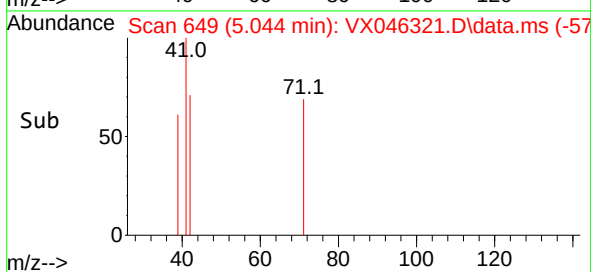
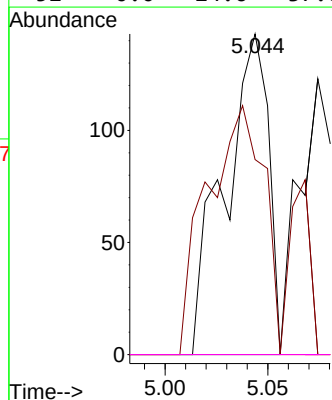
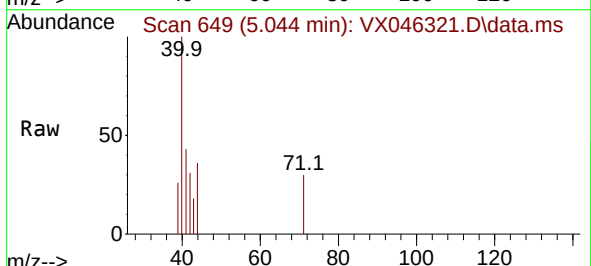


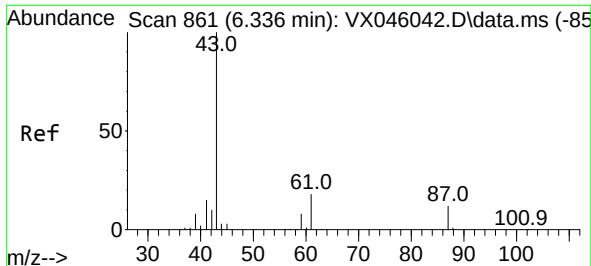
Tgt Ion:117 Resp: 7073
Ion Ratio Lower Upper
117 100
119 5.3 75.2 112.8#
121 0.0 24.2 36.4#



#41
Methacrylonitrile
Concen: 0.281 ug/l
RT: 5.044 min Scan# 649
Delta R.T. 0.128 min
Lab File: VX046321.D
Acq: 22 May 2025 12:00

Tgt Ion: 41 Resp: 213
Ion Ratio Lower Upper
41 100
39 100.5 47.2 70.8#
67 0.0 50.7 76.1#
52 0.0 24.6 37.0#

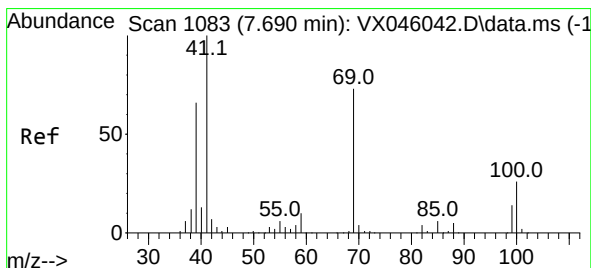
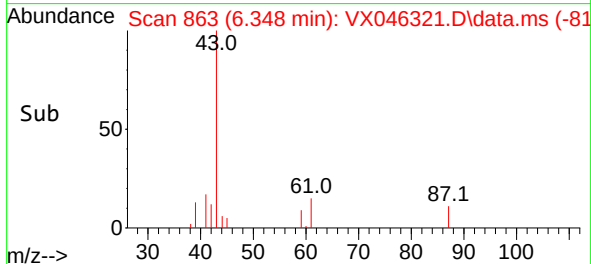
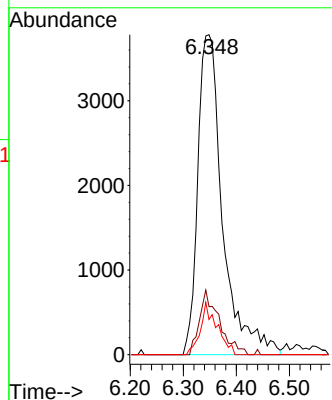
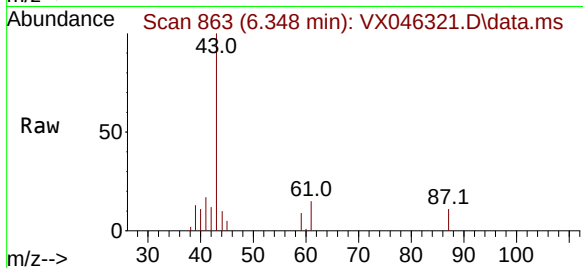




#43
Isopropyl Acetate
Concen: 5.551 ug/l
RT: 6.348 min Scan# 81
Delta R.T. 0.012 min
Lab File: VX046321.D
Acq: 22 May 2025 12:00

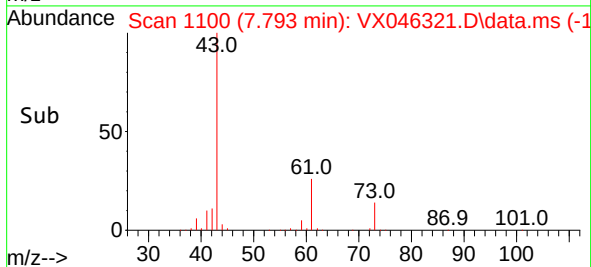
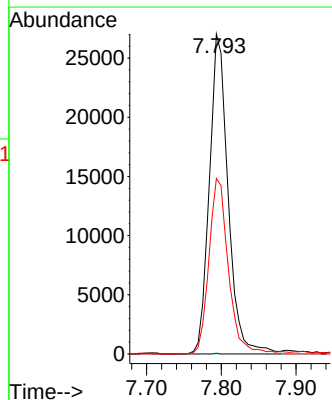
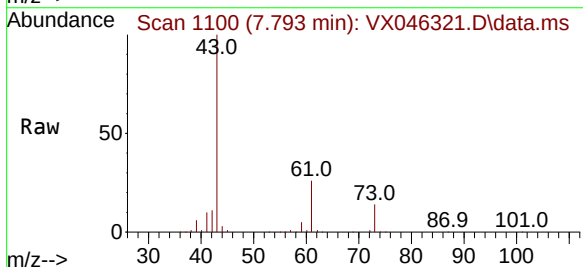
Instrument :
MSVOA_X
ClientSampleId :
RBR251675

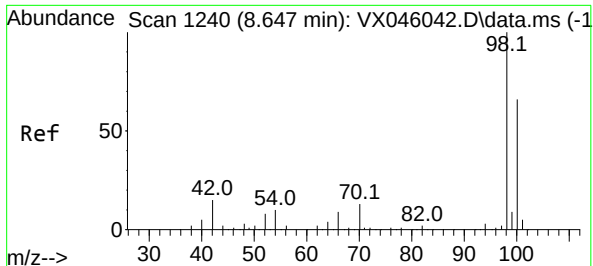
Tgt Ion: 43 Resp: 12281
Ion Ratio Lower Upper
43 100
61 16.1 14.3 21.5
87 11.0 9.5 14.3



#48
Methyl methacrylate
Concen: 41.769 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.104 min
Lab File: VX046321.D
Acq: 22 May 2025 12:00

Tgt Ion: 41 Resp: 47192
Ion Ratio Lower Upper
41 100
69 0.0 58.5 87.7#
39 57.1 51.7 77.5

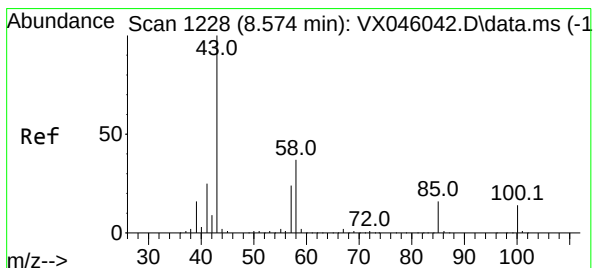
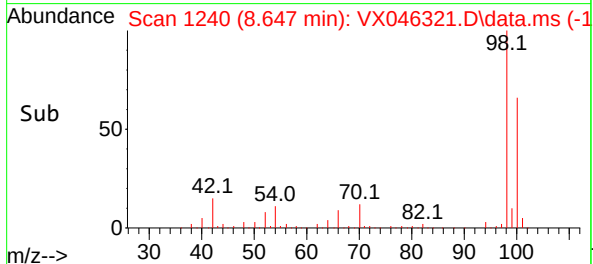
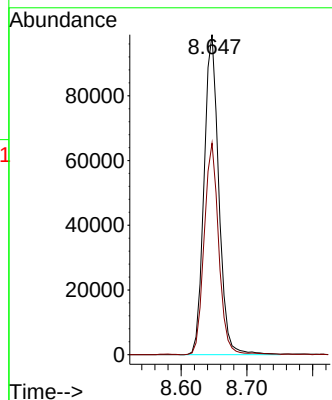
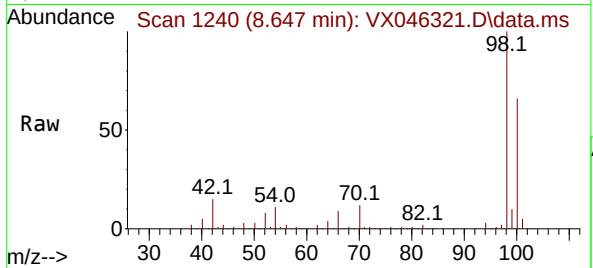




#50
Toluene-d8
Concen: 50.993 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046321.D
Acq: 22 May 2025 12:00

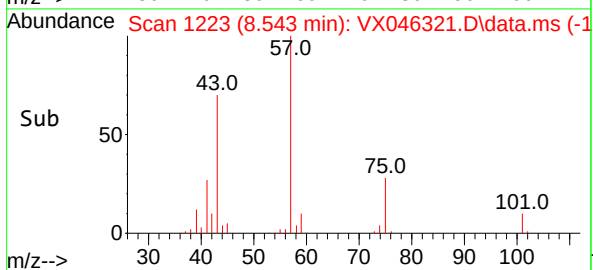
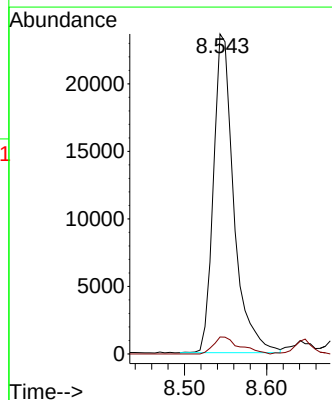
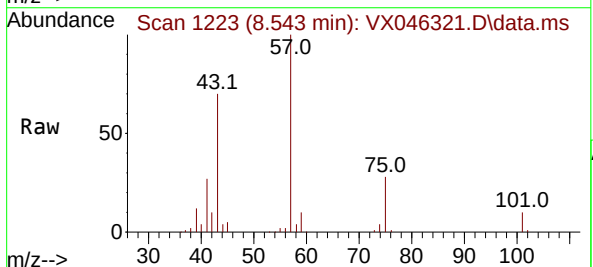
Instrument :
MSVOA_X
ClientSampleId :
RBR251675

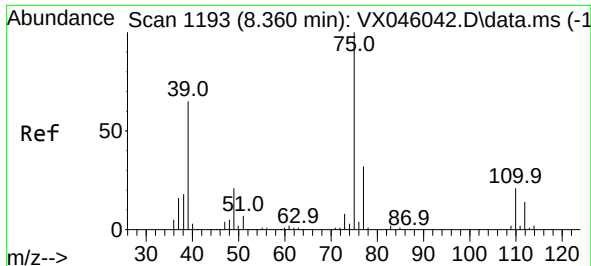
Tgt Ion: 98 Resp: 154181
Ion Ratio Lower Upper
98 100
100 65.5 53.5 80.3



#51
4-Methyl-2-Pentanone
Concen: 27.648 ug/l
RT: 8.543 min Scan# 1223
Delta R.T. -0.031 min
Lab File: VX046321.D
Acq: 22 May 2025 12:00

Tgt Ion: 43 Resp: 40600
Ion Ratio Lower Upper
43 100
58 6.8 28.9 43.3#

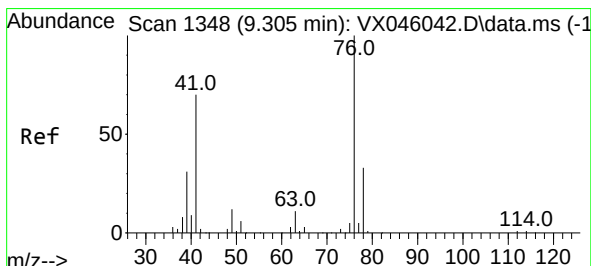
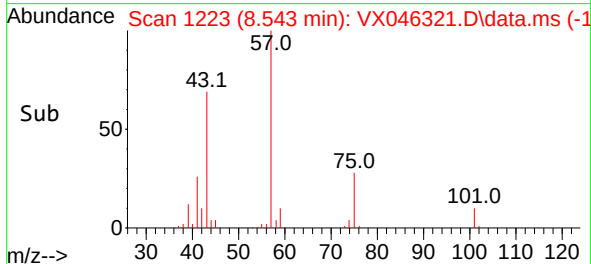
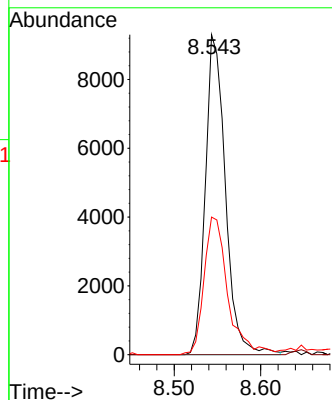
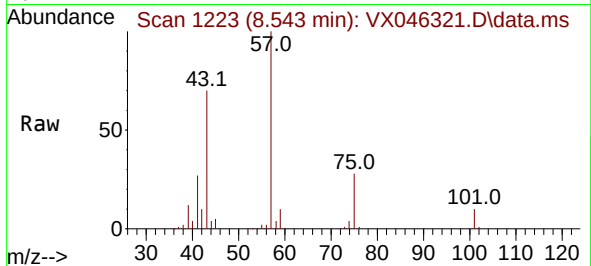




#54
 cis-1,3-Dichloropropene
 Concen: 11.462 ug/l
 RT: 8.543 min Scan# 1193
 Delta R.T. 0.183 min
 Lab File: VX046321.D
 Acq: 22 May 2025 12:00

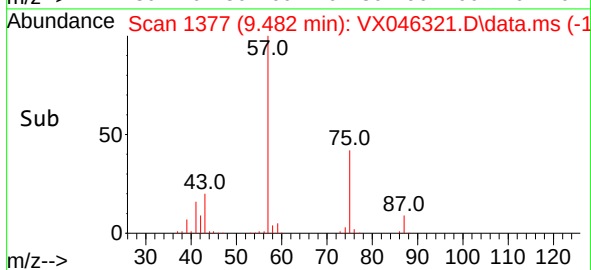
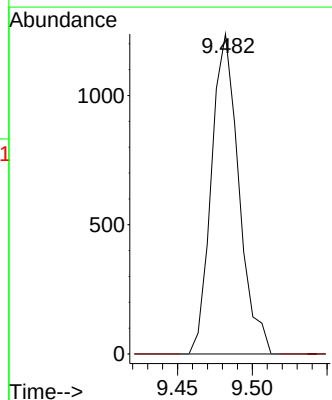
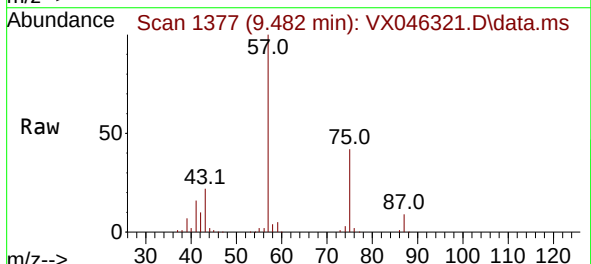
Instrument :
 MSVOA_X
 ClientSampleId :
 RBR251675

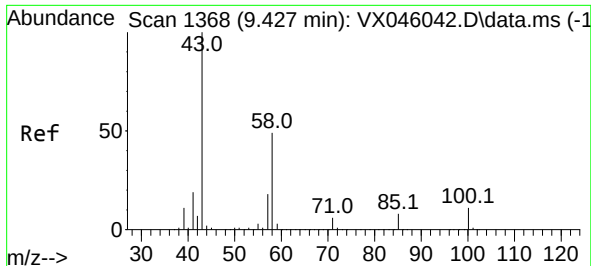
Tgt Ion: 75 Resp: 14953
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 43.0 52.2 78.4#



#57
 1,3-Dichloropropane
 Concen: 1.058 ug/l
 RT: 9.482 min Scan# 1377
 Delta R.T. 0.177 min
 Lab File: VX046321.D
 Acq: 22 May 2025 12:00

Tgt Ion: 76 Resp: 1580
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#

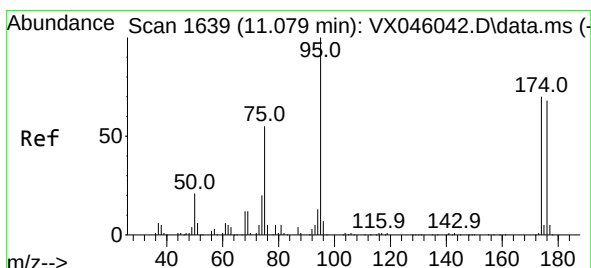
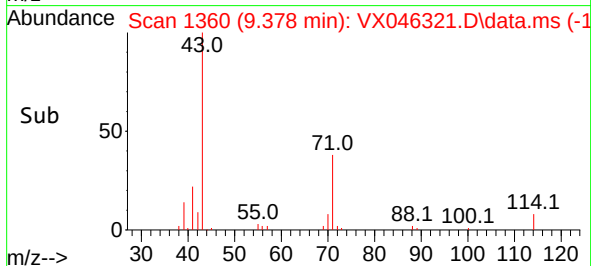
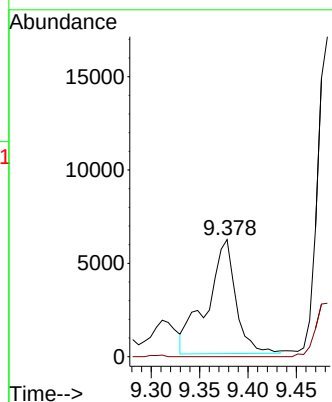
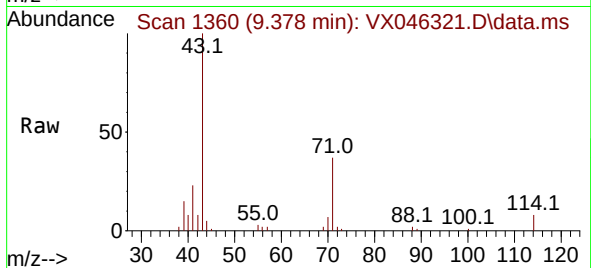




#59
2-Hexanone
Concen: 11.622 ug/l
RT: 9.378 min Scan# 11
Delta R.T. -0.049 min
Lab File: VX046321.D
Acq: 22 May 2025 12:00

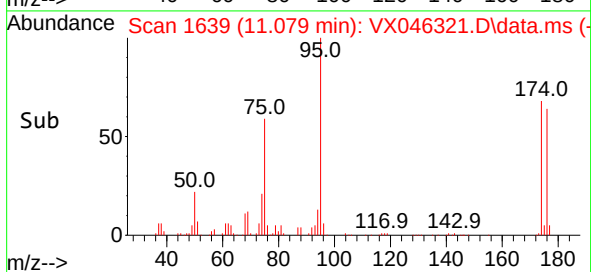
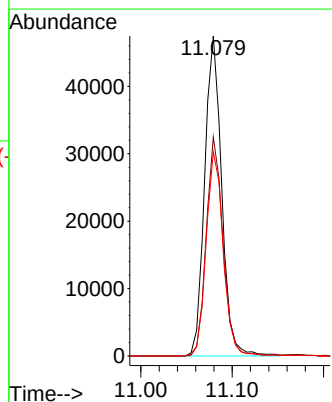
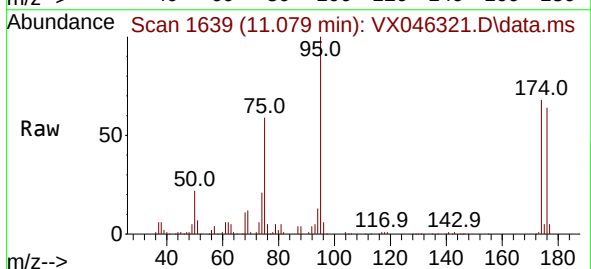
Instrument :
MSVOA_X
ClientSampleId :
RBR251675

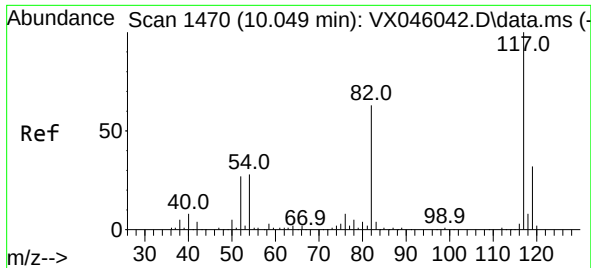
Tgt Ion: 43 Resp: 12627
Ion Ratio Lower Upper
43 100
58 0.0 24.9 74.6#



#62
4-Bromofluorobenzene
Concen: 52.863 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046321.D
Acq: 22 May 2025 12:00

Tgt Ion: 95 Resp: 61310
Ion Ratio Lower Upper
95 100
174 66.9 0.0 135.8
176 64.1 0.0 131.4

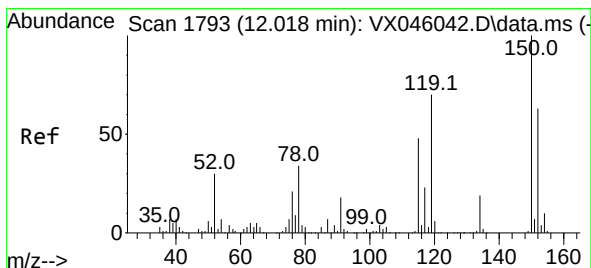
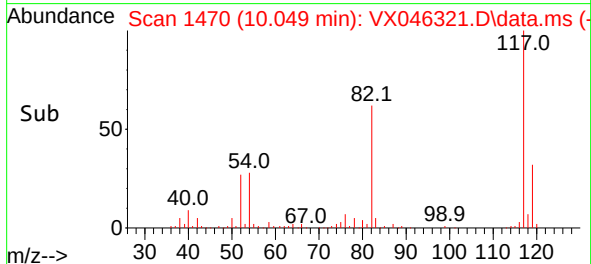
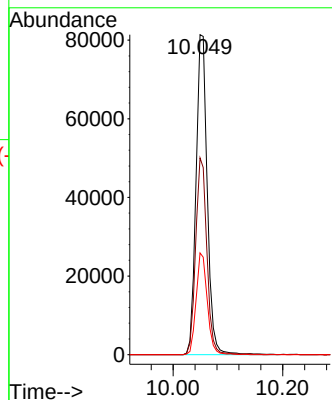
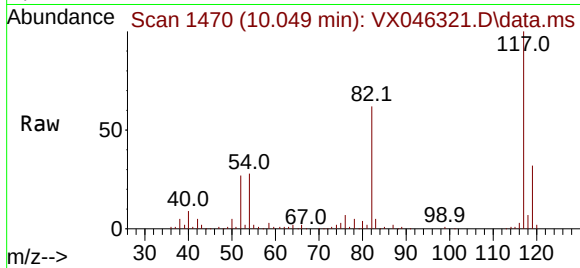




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX046321.D
Acq: 22 May 2025 12:00

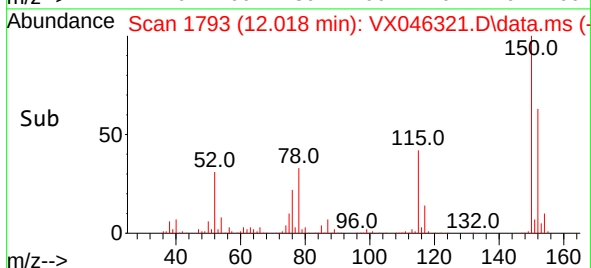
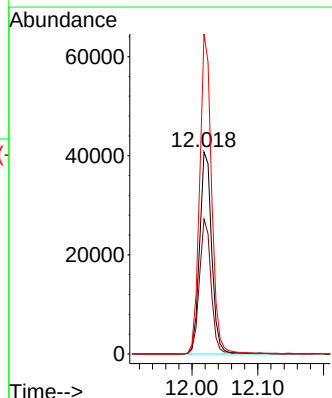
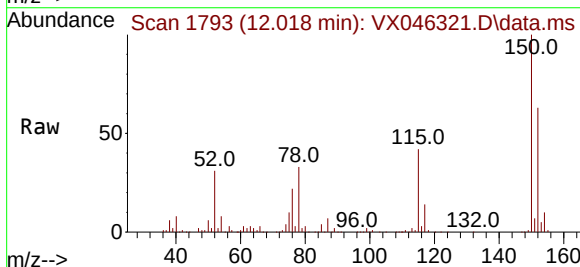
Instrument :
MSVOA_X
ClientSampleId :
RBR251675

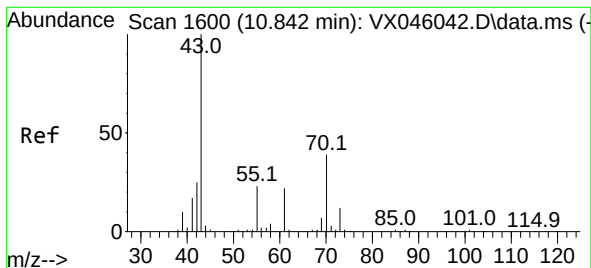
Tgt Ion:117 Resp: 116684
Ion Ratio Lower Upper
117 100
82 61.5 50.6 76.0
119 31.8 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046321.D
Acq: 22 May 2025 12:00

Tgt Ion:152 Resp: 52293
Ion Ratio Lower Upper
152 100
115 64.5 46.9 140.7
150 155.9 0.0 351.0





#74

N-amy1 acetate

Concen: 0.681 ug/l

RT: 10.781 min Scan# 1

Delta R.T. -0.061 min

Lab File: VX046321.D

Acq: 22 May 2025 12:00

Instrument :

MSVOA_X

ClientSampleId :

RBR251675

Tgt Ion: 43 Resp: 1370

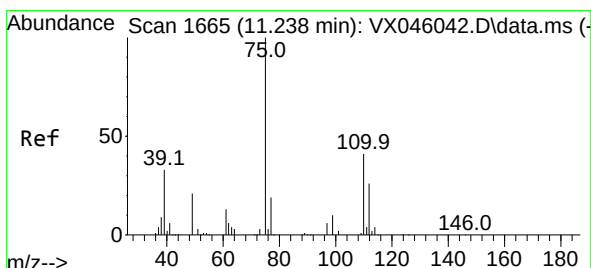
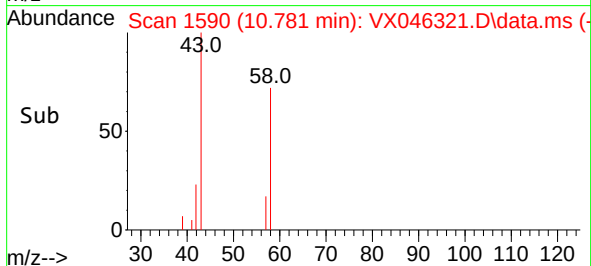
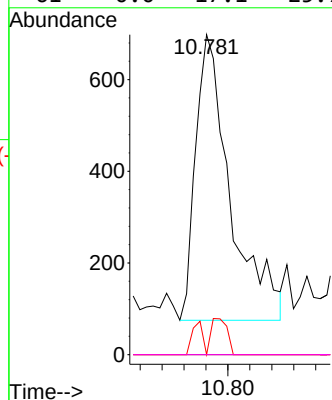
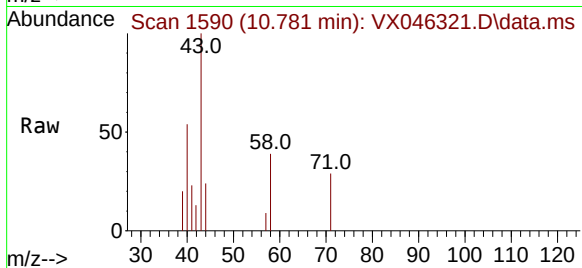
Ion Ratio Lower Upper

43 100

70 0.0 30.9 46.3#

55 3.5 18.7 28.1#

61 0.0 17.1 25.7#



#76

1,2,3-Trichloropropane

Concen: 28.523 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX046321.D

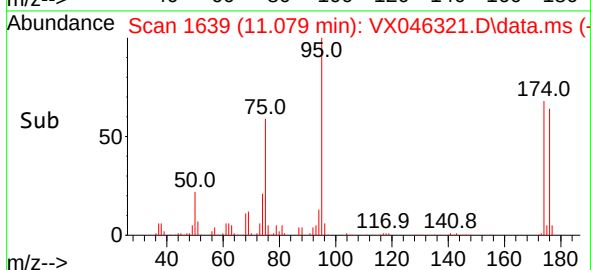
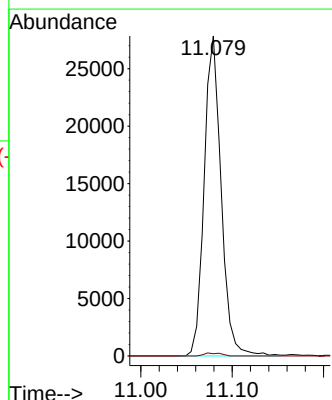
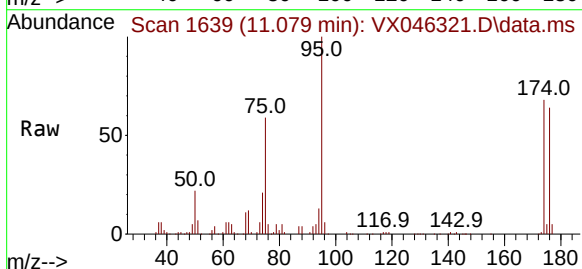
Acq: 22 May 2025 12:00

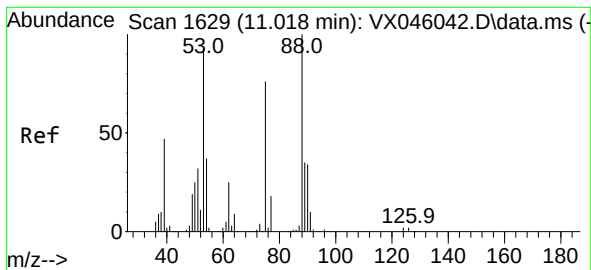
Tgt Ion: 75 Resp: 35902

Ion Ratio Lower Upper

75 100

77 0.9 20.5 61.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 92.861 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX046321.D
 Acq: 22 May 2025 12:00

Instrument :
 MSVOA_X
 ClientSampleId :
 RBR251675

Tgt Ion: 75 Resp: 35902
 Ion Ratio Lower Upper
 75 100
 53 0.0 100.5 150.7#
 89 0.1 37.0 55.6#

